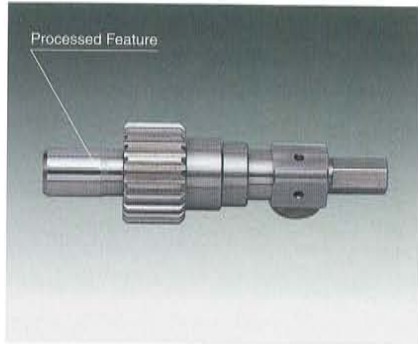


Processing Example

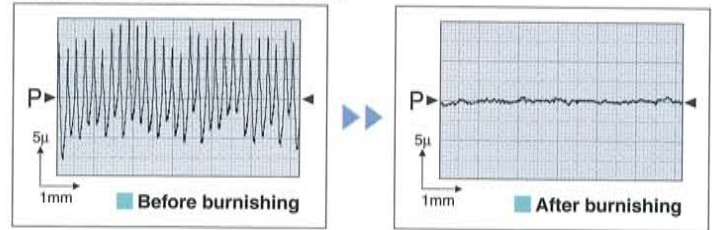
Gear Shaft



(Machining Parameters)

Model Number	CSA1200D			
Material	SUS303			
Processing Diameter	Inch	ø.472 x .551L	mm	ø12 x 14L
	Ry μ Inch	Before 287.40	Ry μ m	Before 7.3
Surface Roughness	After	23.63	After	0.6
	Rotation Speed(RPM)	min ⁻¹	710	
Feed Rate	Inch/rev	.016	mm/rev	0.4
	Cycle Time	Sec.	3.3	

(Surface Finish Comparison)



Processing Parameters

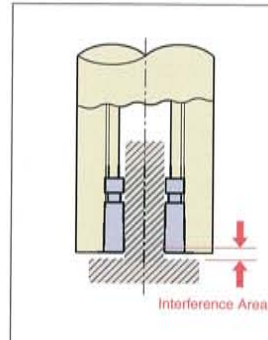
(Description of Operation)

- 1) Select the proper Superroll tool for the particular application.
- 2) Select the proper speeds and feeds to operate the tool.
- 3) After processing to depth, reverse the spindle rotation to counter clockwise and rapid traverse the tool out of the work piece.

(Machining Parameters)

Processing Diameter		Rotation Speed(RPM)	Feed	
Inch	mm		Inch/rev	mm/rev
.119~.275	3 ~ 7	800~1,200	.008~.015	0.2~0.4
.296~.551	7.5~14	600~ 800	.008~.023	0.2~0.6

(Tool Processing Limitations)



Processing Diameter		Interference Area	Inch	mm
Inch	mm			
.119~.311	3~ 7.9	.032	0.8	
.315~.551	8~14			

Note1. There is a .020"[0.5mm] interference area that will not be processed by the tool. Please see the illustration above.

2. To minimize the amount of interference between the bottom of a surface and the tool, the mandrel extrusion may be cut to the length of the roller protrusion.